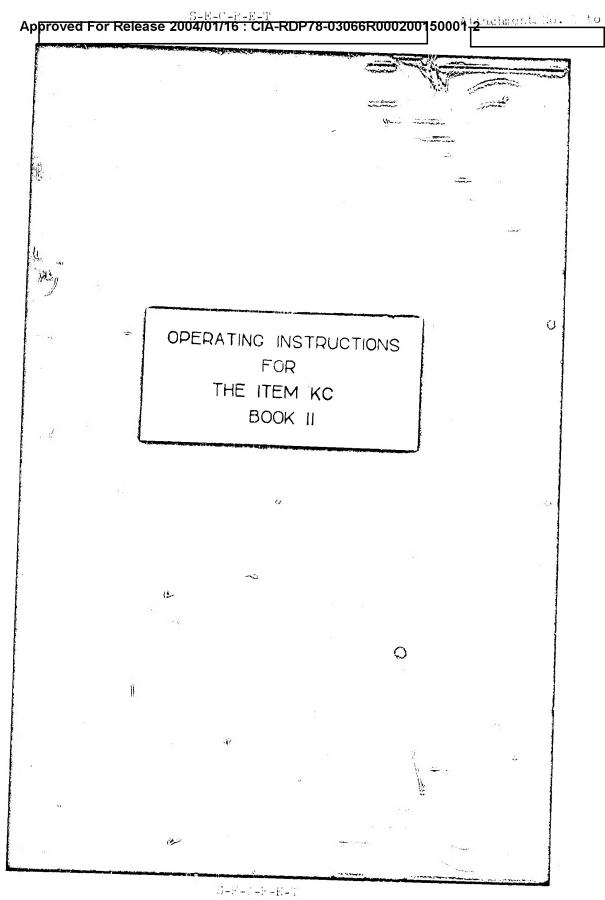
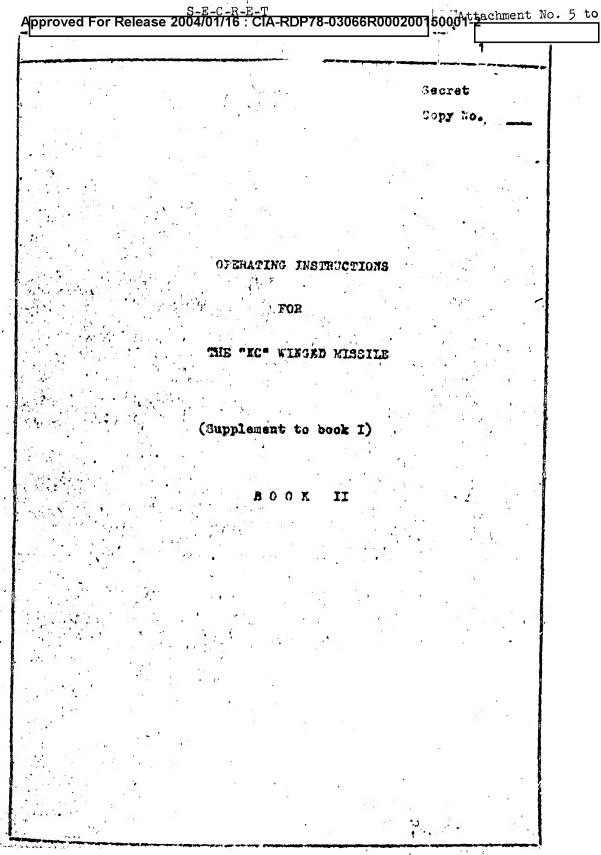
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2.

The Operating Instructions for the "KC" winged missile consist of two books:

Book I - Operating Instructions for the "YG" winged sissile (restricted).

Book II - Operating Instructions for the "K3" winged missile (secret).

The Operating Instructions for the "KC" winged missile are intended for the mechanical personnel servicing the "KC" winged missile.

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SECTION I

FRE-FLICHT PREPARATION OF THE MISSILE

I. GENERAL

When preparing the "KC" missile before a flight proceed as follows:

- 1. Fill the missile with fuel and oil.
- 2. Install the " 4T-52" warhead in the warhead compart-

POTE: The weight of the " 41-52" warhead fully loaded must be 1015+17 kg.

- 3. Attach the "HC" missile to the carrier-siroraft and operly level the missile.
 - 4. Test the "KC" missile engine by nontrolling it from carrier-aircraft.
- 1950 Check the "KC" missile electrical and special appropriate appropriate and special appropriate app
- 6. Install the tracer, fuses and connect the cables of the fuse triggering pins.
 - 7. Fre-flight inspection of the missile.
 - To prepare the missile before a flight tow it to the vicing site, remove the scals and fill with fuel and oil.

"Tow the "KC" missile to the warhoad loading site to "Dail the " All-5: "warhoad into the "EC" missile worked portment.

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Install the " (TL) "warhead in conformity with para. 4, this Section.

After installing the "ACL" warhead tow the "RO" missile to the carrier-aircraft parking place. Remove plays from the th-63 plug connector and the fact system valve. Remove the access door panel from the wirhead compartment.

Attach and properly level the "KJ" missile.

The detailed description of the "No" missile attachment and levelling to the TY-TAKO carrier-aircraft is given in the "Maintenance Instructions for the TY-1810 carrier-circraft auxiliary equipments. Listed below are the operations required for attaching the "Not missile to the corrier-aircrait rack.

. Connect the PK-63 plug connector; to do this:

. 1. Using the wrench extend a the FK-63 plag connector, manually straighten the ros so that the Pi-63 plug connector keys coincide with the reservable key alots on the "All" missil

Then smoothly lewer the plug till it contacts the receptacle pins. Clightly shake the plug so that all the pins would enter the sockets and only after that fully lower the plug.

2. Unlock the wrench ratchet without removing the annu from the wrench handle: after that turn the wrench to lift the PK-63 plug connector till the red mark on the indicator coincides with the edge of the rod nut. In this position look the wrench ratchet. Using the wrench extend the quick-disconnect fuel supply sipe of the TV-1800 carrier-aircraft through which the carrier-aircraft fuel is supplied to the that miscin Just system. When extending the pipe direct manually the valve stem into the sacket in the "al" missile.

8

Lower the fuel supply pipe onto the "KC" missile extormal fuel supply valve and keep it so till the indicator red marks on the valve and external fuel supply pipe casing are altered.

Test the "KC" missile engine, electrical and special equipment by operating them from the carrier-aircraft in accordance with the "Naintenance Instructions for the TY_IGKC carrier--aircraft auxiliary equipment", Instructions for the TY_IGKC carrier-aircraft crew operation with the "K" equipment on the ground and in the air" and para.2 and 3, this Section.

in the oil tank using the bayonet gauge; if necessary, fill the tank up to the level of 6-8 litres; check the fuel quantity in the aircraft fuel tank by using the bayonet gauge and, if necessary, fill the tank up to the level of 245 litres(200 kg.).

It is permitted to replace the IND4 fuse in the Ay-41 motor popor supply circuit of the K1-7M unit with a jumper;

- (a) open the lower access door between frames 2 and 6;
- b) unsorew the attaching screws and open the K1-13M unit
- c) replace the ISMp4 fuse with the jumper provided in

Close the access doors, install the k-403A fuses.

Connect the cables to the fuse triggoring pins (see para.4,

- The cubics must be installed and connected by the armament specialists.
- to condition of the "KC" missile, after the pre-flight

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preparation procedure is completed, corresponds to a state of readiness No.1 for the whole weapon system ("II-IEEC carrier-aircraft together with the "NO" missile).

The "KC" missile is permitted to be kept in the condition of readiness No.1 for one flying day.

Immediately before taking-off inspect the "KC" wissile and proceed as follows:

- a) check the air intake ducts for freedom from foreign objects;
- b) inspect the left wing and alleron; when pressing the calleron manually it must freely, without sticking, deflect conditions;
 - c) inspect the tail unit; deflect the elevator and rudger coming them with the hand; they must deflect freely out sticking;
 - c) make sure that the engine extension piperis free from
 - o) imageot the right wing and wileron;
 - 2) make core that all the micsile accore decre are
 - connector and find supply connection; make sure that the
 - Decrease the carety pin from the recipiant anachies.
 - (ladder, stands, etc.).
 - a coreta is not were within the flying day, the thorest

ruck.

10.

In this case remove the K-4034 fuses from the " C-52" warhand, place the cart under the "KC" missile (for colocy) and cover the "KC" missile with the tarpauling cover. So a condition of the missile corresponds to a state of toodi-

The "KC" missile is permitted to be attached to the Ty-16 Courter-aircraft rack (readiness No.1 and Do.2) for the moment of attachment.

If this term is exceeded dotach the "RC" miscile from a corride aircraft rack, remove the "AT-52" wormand from missile and perform the pro-flight inspection of the "EC" calls; after that the condition of the missile corresponds state of readiness No.32

To use the "KC" missile, being in resainess No.2 condition to cover from it, and perform the combined checkeut of the classile and Ty-IEKC" carrier-aircraft, install the CJA fuses, connect the c bles to the fuse triggering pind corform the pre-flight inspection of the missile.

position is carried out before the missile corresponds to readiness No.2 do not check the MKC*

missile and Ty-LOKC carrier-aircraft or

install the k-403A fuses.

ENGINE PRE-FIJGHT TEST

Porform the engine pre-flight test immediately prior to a

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when preparing the engine observe the instructions given in the subsections "Preparation of the Engine for Operation", bection II and "Engine Fre-flight Inspection", bection V, Book " PA-500K Engine Operating Instructions and Description". Given below is the list of operations to be performed during the preparation of the engine before a flight. When performing every operation, consider the notes given in para.

- 1. Before attaching the "KC" missile to the carrier-wircraft fill the "KC" missile with fuel and oil. After filling, the quantity of fuel in the tank must be 245 litres and the quantity of oil - 6-8 litres checked by the layenet gauges.
- 2. After attaching the "XC" missile to the carrier-aircraft and connecting the PK-63 plug connector and fuel supply
 section from the carrier-aircraft, switch on the A3C-5
 circuit breaker "SYSTEM SUPPLY" on the bombardier sampl and
 chook the engine control system and fuel supply system for
 proper functioning:
 - vilve set in the extreme position, the corresponding warning boccome ghts illuminated on the aircraft engines starting and control panel at the co-pilot's station;
 - b) open the shut-off valve and switch on the IN-15TH full booster pump of the carrier-aircraft from the aircraft engines starting and control punel at the co-pilot's station.

 Observing the reading of the pressure gauge on the central instrument panel check the pressure which ould be within 1.8+2.0 kg/cm² at a voltage of 27.5+0.5 V.

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Operating the pump for 1-2 minutes check the fuel supply connection on the carrier-aircraft-to-"KC" missile attachment rack for freedom from leakage. After that start the IHB-2 pump, stop the IH-45TK pump and close the aircraft fuel shut-coff valve. Check the IHB-2 pump operation by ear.

to the "K;" bus-bar, through the closed "KI and AP" switch on the bombardier's control panel.

ARNING: Before energizing the "KC" missile bus-bar check that the special equipment is switched off (the switches on the K1-13% and I-I units must be set in the "GPF" position.

Test the engine only with the special equipment de-energized.

- 3. To prepare the engine for starting:
- check that the plugs seals are removed from the fuel tank vent
- locked in the open position:
- c) check that the cap is removed from the CL-3 pressure switch connection and the plugs are removed from the EP-I barquetric pressure control;
- d) inspect the engine and engine compartment through the
 - are free from foreign objects;

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ignition

4. Check the flight start system: to do this, set the "GROUND START" BLOWING -FRIGHT START" selector switch on the engine starting and control panel in the "FLIGHT START" position and the "IGNITION" A3C-30 circuit breaker in the "ON" position for 1-2 sec.

In this case two flames of fire (in combustion chambers No.13 and 8) must be seen.

Observe the flumes at a distance of 3-4 m. from the extension ripe jet nozzle and.

5. Start the engine.

NOTE: Start the engine and check its operation by using the fuel supplied from the carrier-aircraft. In this case the fuel quantity in the "KC" missile tank should remain unchanged.

Start the engine as follows:

- a) before starting the engine observe the reading of the voltmeter (on the pilots' central instrument panel) to check the voltage of the carrier-aircraft electrical system, which must be 27.5#0.5.V.
 - b) set the "SHUT-OFF VALVE" selector switch on the engine Control panel in the "OPEN" position and the pump control rheostat in the "DECREASE" position.
- c) in the carrier-aircraft switch on the power supply for the missile; set the "MISSILE POWER" ASC-5 circuit breaker and "K-1 and AM* selector switch in the "ON" position, in this case the "OIL PRESSURE" warning lights on the pilots' central incorrument panel and the "CUT-OFF VALVE CLOSED" and "LOT SPEED" warning lights on the engines starting and control panel at the co-pilot's station must become illuminated;

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- d) set the "PLIGHT START BLOVING GROUNL START" selector switch in the "GROUN! START" position;
- e) set the "TONITION" ADD-30 circuit breaker in the "ON" position;
- f) open the out-off valve and press the starting button for 1-2 sec.; in this case the "IGNITION" warning light must come on.

After that the engine must be automatically started and attain the low speed rating $(3500^{+100}_{-200} \text{ r.p.m.})$.

When the engine begins running at the low speed, the
" OIL PRESSURE" warning light on the pilots' central
instrument panel must go out;

- g) after the engine has attained the low speed, set the "IGNITION" A3C-30 circuit breaker in the "OFF" position.
- 6. Check the engine operation.

 Check the "KC" missile engine operation from the carrier-air-craft according to the diagram given in Fig. 4.0.

NOTE: With the ongine running inspect the connections for freedom from leakage and damages through the starboard access door.

Smoothly change the engine rating from the low speed to maximum speed (within) min.). With increase in the engine r.p.m. check the "AC" missile generator switching on by observing the voltmeter on the pilots' central instrument panel.

The voltage should be 28±0.5 V.

MARNING: Fo not switch off the external power supply as an interlocking relay is provided in the carrier---ironait electrical system.

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After operating the engine at the maximum speed for min. stop the IIH-45TK pump for 3-5 sec. and close the carrier-aircraft fuel system shut-off valve.

When changing the missile engine fuel supply to drawn fuel from the "KC" missile fuel tank or from the carrier aircraft fuel system, permissible change in the engine speed is ± 50 x.p.m.

NOTE: When changing the engine fuel supply to drawn from the "NC" missile tunk for 3-5 sec.

Thel consumption is 4-5 litres.

Stop the engine as follows:

- a), switch off the ILH-45TK pump;
- b) close the shut -off valve; !
- o) olese the out-off valve.

After the engine turbine is stepped set the "MISSILE POWER" A3C+5 circuit breaker and "K-I and AP" selector twitch in the "OFF" position.

7. Check the fuel and oil Tever in the respective tanks by using the bayenet gauges. If necessary, fill the fuel tank up to the level of 245 litres and the eil tank to the level of 6-8 litres.

8.Commet the special coul ment.

9.Close all the access decre-

10. Transfer the missile for performing further prepara-

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J. ELECTRICAL AND SPECIAL EQUIPMENT PRE-FLIGHT TEST

The equipment is prepared for operation before a flight when the "KC" missile is attached to the carrier-aircraft.

Prepare the electrical and special equipment before the flight as follows:

- 1. Check the remote-control operation of the engine throttl valve and cut-off valve actuators observing the warning lights on the engineastarting and control panel at the co-pilot's station.
- 2. Check the operation of the oil pressure switch and life!! tachometer transmitter by observing the FOCL RECOURS. warning Kight and tachometer indicator on the pilots central instrument panel (when testing the engine).
- generator gets connected to the electrical system by observing the voltmeter and tachometer indicator installed on the pilots contral instrument panel (when testing the engine from the corrier-aircraft).

The generator should be connected to the missile electrical

- At Check the CHKC-TA unit operation in accordance with the Pascription and Operating Instructions "TA EC2-0-00 ToundMark Solffest the K1-V station and ANK-5B autopilot for proper according to the "Temporary Operating Instructions."
- for the K1-N station and " ANK-5B Autopilot Operating.
 - 6. Install the Th-60 tracer on the "KC" pissile and collect

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NOTE: If the "KC" missile was not used within 3 days since attached to the carrier-aircraft it is necessary to remove the missile. Check the equipment according to the instructions given in the "KC" Missile Operating Instructions, Section VII.

Book I.

PROPARING THE WARHEAD WOR USE

GENERAL

Outlined in this section are the main procedures personmed during preparation of the "KC" missile warhous for use.

The detailed description of all the procedures is given in the "Al-52 Warhend Description and Operating Instructions", "Y-403A use Cherating Instructions"; "Instructions to Preparation and Installation of the 41-52% Warhend Wissile and K-403A Fuses in the "KC", Earhead Compartment".

Before delivering the AT-52 warhead to the loading site of the cirfield, store it in the box in a depot of the using organization located at a distance of not less than 3 km.

from dwolling houses and air field.

Transport the 41-52 tarhead packed from the depot to the louding site by trucks having the load-carrying capacity of not loss than 2 t. at a speed not exceeding 20 km/hr.

Do not keep on the loading site at a time more than eaght 4P-52 warhouds loaded incompletely.

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PREPARATION OF THE WARREND FOR USE

on the loading site unpack and depreserve the 4T-52 warhead and install it in the "KC" missile warhead compartment. To install the AT-52 warhead in the "KC" missile, lift the warhead by the truck crune or some other lifting device having the load carrying capacity of not less than 2000 kg. which ensures safety operations with high explosive.

The missile must be installed on an wirfield cart in the horizontal position. Secure the 47-52 warhead in the warhead compartment, install the access door cover and tow the "KC" missile to the take-off position.

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· S B C T I C N II

THE MISCILL MAINTLEANCE AFTER LANDING

(Supplement to Section IX, Book 1)

1. GENERAL

Perform the efter-flight insycction of the missile after the TV-ICAC carrier-wireraft, lands with the "KC" missile attached.

Prior to the after-flight inspection proceed as formers:

- 1. Disconnect the cables from the K-403A fuses triggering pins, take off the fuses from the ALSE warhead and install instead of them wooden plugs according to the "AT-32 Warhead. Description and Operating Instructions", "K-403 Fuse Operating Instructions", "K-403 Fuse Operating Instructions for Preparation and Installation of the AT-52 Varnead and K-403A Fuses in the "KU" Aiswile Warhead Compartment".
- 2. The "FC" missife must be det ched from the TV-TC C carrier-aircraft rack by the ground servicing team according to the "Instructions for the TV-TCKC carrier-siroraft auxiliary aquipment maintenance".
 - 3. Tow the "KC" miscile to the loading site to remove the warhead.

The required equipment and instructions for removing the 4F-52 warhead are given in the "4F-52 warhead Description and Operating Instructions", "Instructions for Preparation and Installation of the 4F-5EC-arhead and K-403A Fuses in the "KC" Missile Warhead Compactments

S-E-C-R-E-T

SECTION III.

OPERATION AND MAINTENANCE OF THE ELECTRICAL AND SPECIAL EQUIPMENT

(Supplement to Section VII, Book I)

I. CHECKING THE BIECTRICAL AND SPECIAL EQUIPMENT ENERGIZED

Check the electrical and special equipment energized in two stages:

- 1. When the engine is inoperative and
 - 2. when the engine is ground tested.

Check the equipment according to the diagram given in Fig.3 using the CT-5K battery cart furnished with the cable for connection to the "KC" missile.

To obtain the normal temperature condition required for operation of the K1-6K unit of the K1-N station during ground test of the "KC" missile, blow the K1-6K unit with air.

To do this, install the brackets with the fans (Fig.7) in the nose section of the "KC" missile on the left and right of the K1-O unit; before testing the K1-M station.

install the fami as follows:

- 1. Unscrew two bolts (1) attaching the section with the dampers (2) and remove the section.
- 2. Install in the "KD" missile compartment the KC-7106-1121 bracket (3) and KC-7106-1122(4) bracket with the fans (5) attached to them.

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- 3. Install the removed section with the dampers (2) in place and secure with bolts (1).
- 4. Unscrew 4 bolts (6) attaching the dampers (7 and 8) and secure the brackets (3 and 4) together with the dampers (7 and 8) by the bolts (6).
- 5. The the cables on the left side to the section (2) using the tape with the button (9). Check that the clearance between the fun blades (when rotating) and cables and wave-guides is 5 mm.
- fan plug connectors.
- 7. Before energizing the Ki-M station, connect the other and of the cable to 27 V L.C. power supply source.

Remove the brackets with the fans reversing the installa-

I. CHECKING WITH THE ENGINE INOPERATIVE

imperative prior to the monitoring tests of the engine.

with the engine inoperative, the following energized circuits of the missile electrical system must be checked:

- 4. OH-3 oil pressure switch circuit
- 2. "KO" energized signal circuit
- 3. K1-M station power supply circuit
- 4. ATR-58 autopilet power supply circuit
- 9. "REIMASR" command circuit
- 6. Engine starting units circuit (Cu65AHM
 - r plugs, cff-45 starting fuel negates, KP-4 booster coil

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- 7. Tracer circuit
- 8. YT-6H electric actuator power supply and warning system circuit
- 9. M3K-2-2 electric actuator power, supply and warning system circuit.

PREPARATION OF THE "KC" MISSILE FOR CHECKING

- 10. Check the CT-5K cart battery voltage by setting the "VOLTAGE" selector switch in the "BATTERI" position.

 The voltage of the battery loaded must be not less than 24 V.
- 11. Remove the covers of the fuscings lower access doors between frames 3-6, 11-14, 14-18, sturboard access door between frames 16-18 open the "ENGINE STAUTING UNITS" access doors on the fuscinge portside and starboard. Remove the clamps from the control surfaces.
- pump, set the "POWER" switch on the II-I control unit of the ATK-5B autopilot and the "STATION", "RESPONDER", "ANTENNA" switches on the K1-191 unit of the K1-H station in the "CFF" position. On the CT-51 battery cart control panel set the "EXTERNAL POWER", "LOADING" switches and the "ICHITION", "STARTING FANEL" circuit breakers in the "OFF" position and the "CURRENT", "VOLTAGE" selector switches in the "BATTERY" position.

The out-off volve and throttle valve selector switches must be set in the centre position and the "COMMANL" position.

13. Connect the connecting cable to the FY-63 receptuole 2 the "KC" missile to the TP48TRGGTS and 4-pin receptuole

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of the CT-SK buttery cart.

WARNING: When further operating on the CT-5K cort control panel, see that the "STARTING MANEL" and "IGNIPION" switches art in the "CFF" position and the "COVMAND" switch - in the "COMMANL" position.

CHECKING THE UTREWITS OF THE CHES PRESSURE SWITCH POWER

warning light built in it (the connector plug is furnished with the set of the CT-5K ourt) to the MP48HC.6UM2 cuble connector receptable (pins).

control panel in the "CN" position. In this case the "NO OIL PRESSURE" warning light on the cart control panel and the "HISSLIE NESERIZEL" warning light at the P48HCCOME cable plug connector should come on. When further supplying control power to the "KC" missile bus war, the "NOT OIL PRESSURE" warning light should always come on.

15. Set the PEXTERNAL POWER" selector switch in the "OFF" are on and disconnect the plug with the warning light from a receptable.

CHECKING THE KI-M STATION POWER SUPPLY CIRCUITS

17. Set the "EXTERNAL POWER" selector switch on the stery cart control panel in the "ON" position.

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unit in the "CHT cosition. In this case the EA-250" and EA-500" inverters should start operating and the F1-77 unit radiator should begin rotating.

theck the inverters and F1-7M unit overstion by a characteristic noise. The test duration must be not more than 3.5min.

WARNING: When checking, install and connect the 21-12'0' and K1-7# units and K1-0 cradle with units.

If the above units are not installed, switch on the station for not more than 1-2 sec.

19. Switch off the Ki-E station by setting the "ANTANKA" on the Ki-13M unit and "STATIAN" switches/in the "OFF" position.

the presence of the person responsible for sersicing the station.

CHECKING THE ANK-5B AUTOPIIOT FOREF SUPPLY CIRCUITS

20. Set the "POWER" switch on the II-I control unit in the "ON" position; in this case the EAI-I2A inverter and gyro in the II-2 gyro unit should start operating.

Check the inverters and gros operation by a characteristic noise.

21. Set the "POWER" switch on the Ω -I unit in the "Dr"" position.

Duration of the check, according to step 20, must be not more than 1-1.5 minutes.

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- with the N-2 unit removed, check the circuits serviceability by Illumination of the "AUTOPILOT POWER SUPPLY" warning light connected to the plug connector (46) receptable (the connector flug with the warning light built in it is furnished with the set of the CT-5% battery cart) instead of switching on the inverters and gyros. In this case, switching on and off the power supply is performed by the "ExTERNAL POWER" selector switch on the CT-5% battery cart control panel instead of the "POWER" switch on the N-1-1 unit.
 - b) Check the AMR-5B autopilot power supply circuits in the presence of the person responsible for servicing the autopilot.

CHECKING THE "RELEASE" COMMAND CIRCUIT

- 22. Make sure that, the "COMMAND" switch on the CT-SE battery cart control panel is 50% in the "COMMAND" position.
- 23. Remove the cover plug from the "K" plug connector for the board check. (Cable plug (13) between frames No.3-6, portside) and connect the connector plug with the "CUMMAND" warning light built in it (the connector plug is furnished with the set of the CT-5K cart).

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24. Set the "AND" switch on the battery cart in the "OFF" position. In this case the PT-40 relay on the missile board is de-chargised and closes its contacts; the "COMMAND" warning light should come on.

. The R1-6M unit time mechanism electric motor may start rotating (the motor rotation is determined by a characteristic noise).

25. After setting the "COMMAND" switch in the "OFF" position the BECOC-45 tail light must come on.

CAUTION: Check the tail light for switching on for not more than 1 mm.

- 26. Set the "COMMAND" switch on the battery cart control panel in the "COMMAND" position, the "COMMAND" warning light must go out, the K1-6M unit time mechanism electric motor cust stop operating and the BECOC-45 tail light must go out.
- 27. Disconnect the connector plug with the warning light from the "K" plug connector for the board check and close it with u cap.

CHECKING THE ENGINE STARTING UNITS AND TRACER POWER SUPPLY CIRCUITS

28. Remove the insulation sleeve from the traper positive and negative wires lugs, interconnect the wires and, pressing the "TRACER" button on the CT-9K battery cart control panel, make suro that the circuit is serviceable; the continuity of "the circuit is indicated by illumination of the light located near the button.

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- 29. Pisconnect the framer positive and negative wires, insulate and fasten them. But the "EMTERNAL ROWER" switch in the "OFF" position.
- 32. Disconnect the high tension wires from the igniter plugs and place the wires so that a gap between the wire contact spring and the missile structure would be 3-4 mm.
- control panel in the "CH" position; press momentarily the "IGNITION CHECK" button and make sure that a spark between the contact spring and the missile structure appears.
- of not less than 40 mm. between the wire contact spring and the missile structure; check the ML43 starting fuel nozzle sclenoid valves for serviceability by prescing the "IGNITION CARCK" button for 3-5 sec. The starting fuel nozzles operation is indicated by , characteristic click heard at the instant of pressing the button.
 - NOTE: Lest the engine starting units circuits outside the hangar before testing the PA-500K engine.
- panel in the "OFF" position and connect the high tension wires to the igniter plugs.
- CHECKING THE MOK-2-20 AND FIGURE ELECTRIC ACTUATORS POWER SUPPLY AND SIGNAL CIRCUITS
- J6. Move the MDK-2-20 electric actuator control selector solitch on the CT-5K buttery control panel to the "CUT-OFF VALVE OPEN" Position. After the electric actuator motor has

completed its operating cycle, the "CUT-OF? VALVE OPEN" warning light must come on.

- 37. Perform the above procedure with the switch moved to the "CUT-OFF VALVE CLOSEL" position.
- 38. Move the YT-CH electric actuator control selector switch to the "HIGH SPEED" position.

After the electric actuator motor has completed its operating cycle, the "HIGH SPEED" warning light must come on.

39. Perform the above procedure with the selector switch moved to the "LOW SPRED " position.

time required for the throttle valve rod to move from one extreme position to the other, must be within the limit of 10-20 sec.

<u>WARNING</u>: After the above mentioned test is accomplished, check that the cut-off valve is closed and the throttle valve is in the "LOW SPEED" position.

OPERATIONS PERFORMED WITTER ACCOMPLISHING THE CHECKS

- 40. Make sure that all the switches and selector switches on the buttery cart control panel are set in the positions indicated in step 12, this paragraph.
- 41. Check the missile compartments for freedom from foreign objects, connect and secure the . IHB-2 pump plug connector which is disconnected during the check.

NOTE: If it is necessary to detect broken wires, poor contact and other defects, test the electric and special equipment circuits for continuity by ringing them out. Ring out the effects consulting the wiring diagrams furnished for the set of documents 1:20.

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2. CHECKING DURING THE ENGINE TEST

Before starting the engine, check the IHB-2 pump operation by a characteristic noise.

Check the CT-500% starter for serviceability according to the engine turbine acceleration during the engine cold rotation. The starter must accelerate the turbine up to 1100-1300 t.p.m. indicated by the tachometer on the CT-5% battery cart control ranel.

regulator unit for proper functioning as outlined below.

CHECKING THE OPERATION OF THE TCH-3000M GENERATOR, AMP-400M

the relay and regulator during the engine run. When the engine gains a speed of 5500-6500 r.p.m. the generator must be connected to the electrical system which is indicated by illumination of the "GENERATOR ON" warning light on the CT-5K battery cart control panel.

WARNING: When the "GENERATOR ON" warning light becomes illuminated, set the "EXTERNAL POWER" selector switch in the "OFF" position.

With the engine speed corresponding to the thrust of 1310+25 kg. check the operation of the generator and P-25 All voltage regulator under load; to do this:

- 1. Switch on the generator full load equivolent(simulates) by setting the "LOAD" switch on the CT-5K battory car's boutrol panel in the "ON" position.
- 2. Check voltage and current indicated by the imstruments on the cart control panel by setting the "VOLFAGE" and Commission Belector switches in the "GENERATOR" position. "

The circuit voltage must be 28+0.5 y, current - 100 20

107E: If the voltage is off the above limits, edifort it by means of the rheostat installed in the P-25 . By gregulator unit.

- 3. Unload the generator by setting the "LOAD" switch in se bs "OFF" position.
 - WARNING: a) The generator must be loaded for mot more than 2 min.
 - b) with decrease in the engine opcod to BC set the "EXT. POWER" selector switch inithe "ON" position.

1. OCCERAL

- 1. Adjust the K1-7M antenna whom roplacing the ancount. or polystyrol nose cap.
- 2. The K1-7M antenna in the "KC" missile is electrically adjusted to set the antenna electrical; uxis in the vertical. pland 1015'+5' down from the missile longitudinal wis.

Betting of the antenna axis in the horizontal plane puralich to the missile longitudinal axis to within 0045! is also performed electrically.

- 3. The K1-7N antenna must be adjusted in a special room, on the area free from objects and measuring not less than 14x6=84 square metres with the height (up to the roof, beams or ceiling) of not less than 4 m.
 - NOTE: 1) The space between the K1-7M antenna a target simulator antenna must be free from foreign.

 objects except the connecting high-frequency cable.
 - 2) The "KC" must be positioned on the area so that the rear end of the fuselage would be at the area edge.
 - 3) If there are no precipitations or wind, the appearing is permitted to be adjusted in the open air.
- 2. TAST EQUIPMENT AND DEVICES USED DURING THE ANTENNA

when adjusting the K1-7M antenna, the following test

- 1. Set of the K-100M test equipment.
- 2. Jacks, any type, which ensure rigid setting of the "KC" missile and adjustment of its position in the vertical and horizontal planes.
 - 3. HB-1 levelling instrument.
- 4. Datum levelling bur with the level and division value of 1 mm.
 - 5. Device for pulling up a string above the "KC" missile.
 - 6. Tape-line, not less than 3 m. long.

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- 7. Portable lamp.
- 8. Special triangle with the level for installing the K1-7M antenna reflector.
- 3. LIST OF DOCUMENTS REQUIRED FOR THE K1-7N DETENDA
- 1. Rigging diagram of the "KC" missile on which the K1-7% antenna is adjusted.
- 2. Technical documents certifying that the test equipment and devices used during adjustment are serviceable.
 - 3. The given instructions.
 - 4. Temporary operating instructions for the Ki-H station.
- 5. Temporary operating instructions for the K-100K test equipment.

4. PREPARATORY OPERATIONS

- 1. Using the levelling instrument, datum levelling bar with the level, string with a plumb and jacks, set the *KC* missile in the level flight position according to the instructions given in the *Effectings missilations tiven in the *Effectings missilations tiven in the *Effectings missilations till materials.
- 2. Remove the nose cap. Set the E1-7M antenna so that the parabolic reflector edge would be if the vertical plane.

To do this, using the plumb and special triangle set the K1-7M antonna in the required position by rotating the antenna adjusting screws.

The plumb thread and the parabolic reflector edge plane

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may be unparallel for not more than ±0.5 mm. at a distance of

When performing this operation obtain the clearance of 0.5-1 mm. between the plane of the attachment ring and antennatio-ring lower attachment fitting.

- 1. The clearance between the K1-7M antenna upper attachment fittings and the attachment ring plane may differ from the clearance between the K1-7M antenna lower attachment fitting and the attachment ring plane due to a production tolerance for the attachment ring installation.
 - 2. When setting the reflector edge in the vertical plane, the plumb thread must be as closer as possible to the parabolic reflector edge plane (but does not contact it).

J. Using the string with the "lumbs align the antenna simulator line of symmetry with the "KC" missile plane of symmetry.

the K1-7M antenna radiator centre of rotations for this purpose switch on the K1-% station for 4-5 sec. Mark on the edge of the K1-7M antenna botating radiator the motionless point - center of rotation - by means of a sharply pointed pen. Switch off the K1-M station.

Using the levelling instrument and datum levelling bar, measure the height of the K1-7M antenna radiator axis of rotation and set the target simulator antenna line of symmetry at the same height.

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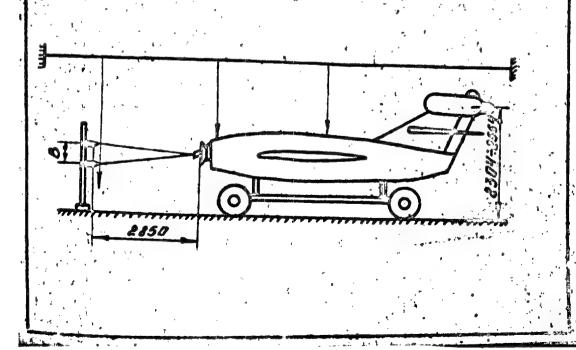
When measuring the height of the target Simulator antenna line of symmetry place the side pin of the datum levelling bar to the side of the datum point marked on the cylindrical; (metal) part of the target simulator antenna.

5. Using the tape-line place the target simulator antenna at a distance of 2850-10 mm. from the K1-7M antenna.

NOTE: Measure the distance of 2850 mm. from the vertical plane passing through the K1-7M antenna parabolic reflector, edge to the beginning of the target simulator antenna cylindrical part.

To find the centre of the circle place the datum .

Levelling bar on the reflector edge.



S-E-C-R-E-T

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Move the target simulator antenna in the vertical plane by the value B where B=2850, tangent 1015 = 2850 x 0.02182=62.5 at After the MKC" missile and test equipment are prepared for operation set:

- 1) Operating frequency of the 31-Wi generator equal to """
 - 2) Ki-M station operating mode KAFC
- KAFC threshhold stopping.
- 4) Percentage modulation of a signal on side "A" equal
- 7 5) Power of a signal on side " 3" equal to 40-50 db.
- 6) 31-19% generator starting pulse delay equal to

5. ALJUSTMENT PROCEDURE

- 1. Switch on the Ki-E station and make sure that it is serviceable by reading the instruments on the test control punel.
- 2. Check the control voltages for no out-of-balancing in the direction and pitch channels. If the control voltages are out of balance, balance the voltages using the "Balance Y" and "Balance Z" potentiometers of the K1-6M unit.
 - Use the M-91 instrument connected to the "CV" (control voltage) sockets of the test control panel.
 - 2. When being adjusted the K1-W station is loaded

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25X1

with the ANK-5B autopilot included in the alrhorne set of the "KC" hissile appoint equipment.

- 3. Adjust the K1-7M antenna attachment fittings so that the control voltages of the direction and pitch chandle are equal to zero.
 - and fasten it by two screws.
- 5. Keasure the control voltages of the direction and pitch channels with the nose oup installed.
- tion (by means of the attachment fittings) so that the compression the attachment fittings) so that the compression and pitch channels are equal but opposite in sign to the control voltages obtained with the nose cap installed.
 - 7. Install the mose cap and make sure the control voltages of the direction and pitch channels are zero.
 - NOTE: When taking zero readings of the control voltages
 pormissible leaps of the measuring instrument
 pointer at the zero mark must be within ±0.2 V.
 - 8. Switch off the station, remove the nose cap, secure the K4-7M . ntenna attachment fittings and install the nose cap again.
 - on the station and make sure that with the nose cap installed and K1-7% autenna attachment fittings secured the central voltages are zero.

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NOTE: After securing the K1-7% entenna attachment fittings the permissible control voltages of the direction and pitch channels should not exceed +0.1 V.

10. If with the nose cap installed and E1-7M antenna attachment fittings secured the control voltages are present repeat the operations outlined in steps 6,7,8, this section, till the required results are obtained.

11. Paint a red mark on the main and looking parts of the K1-7W antenna attachment fittings.

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SECTION: IV

CROUND EQUIPMENT DESCRIPTION, PURPOSE AND OPERATING INSTRUC-

(Supplement to Section X, para.2, Book I)

I TRANSPORTING AND ATTACHING THE "KC" MISSILE TO THE

- 1. Transport the missile to the currier-aircraft from the carrier-aircraft tail side.
- 2. When transporting the missile stop the tractor so that the distance from the carrier-aircraft wing would permit the tractor to turn and move backward.
- 3. Manually place the cart under the carrier-aircraft wing so that the "KC" missile attachment lugs would be under the shackle on the carrier-aircraft rack.
- 4, Using the carrier-aircraft winch lower the rack shackle and fasten it to the "KC" missile attachment lugs.
- 5. Unscrew the hold-down special bolts of the cart rear support and remove the quick release lock pin of the front support.
- 6. Lift the missile up to the carrier by means of the winch according to the "Maintenance Instructions for the TY-IERC hircraft Auxiliary Equipment".
 - 7. Remove the front support from the missile and install it on the cart. After that move the cart away from under the "KC" missile.

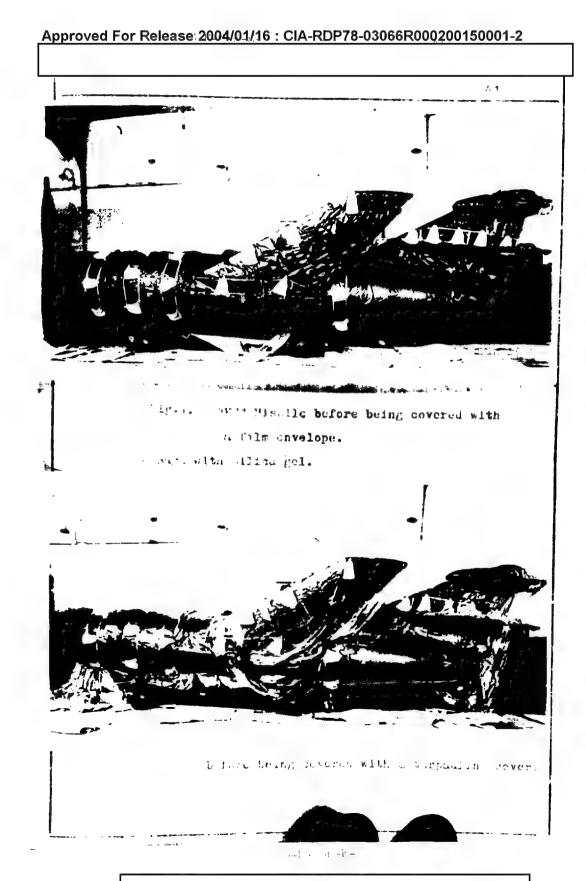
The missile wings must be lowered when it is transported to the carrier-wireraft.

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LLUSTRATIONS

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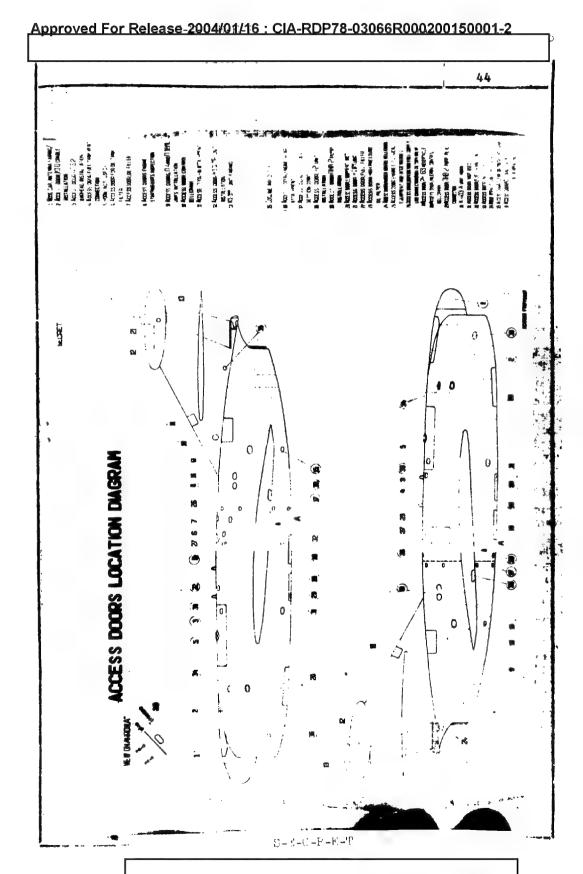


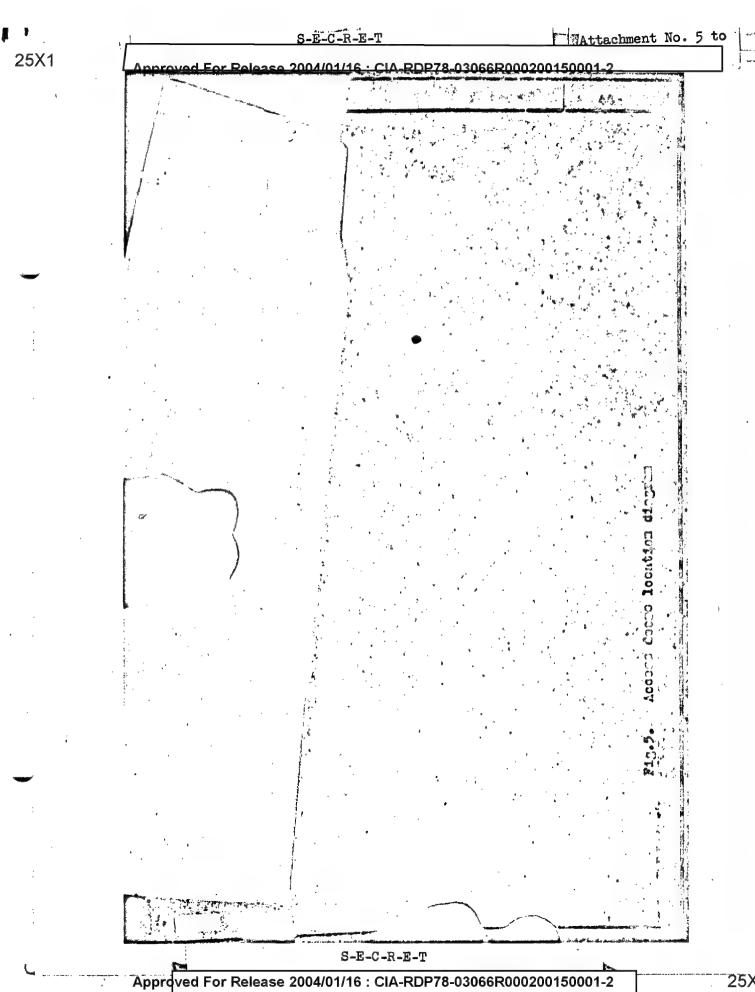


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Key to Fig.5.

```
1. Nose cap (antenna fairing);
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- 2. Access door, M1-0 craftle installation;
- 3. Access door, 47-52 warhead installation;
- 4. Access coor, fuel tank went pipe connection;
- 5. Horn (not used):
- 6. Access door, see all tank filter;
- 7. Access Joor, oil filler;
- 8. Access doors, engine starting units inspection;
- 9. Access doors, P- and R-IC 30 units installation;
- 10. Access anor, control bellorank;
- 11. Access door, iin attachment:
- 12. Access door, K1-12MP unit installation;
- 13. E1-12 unit fairing;

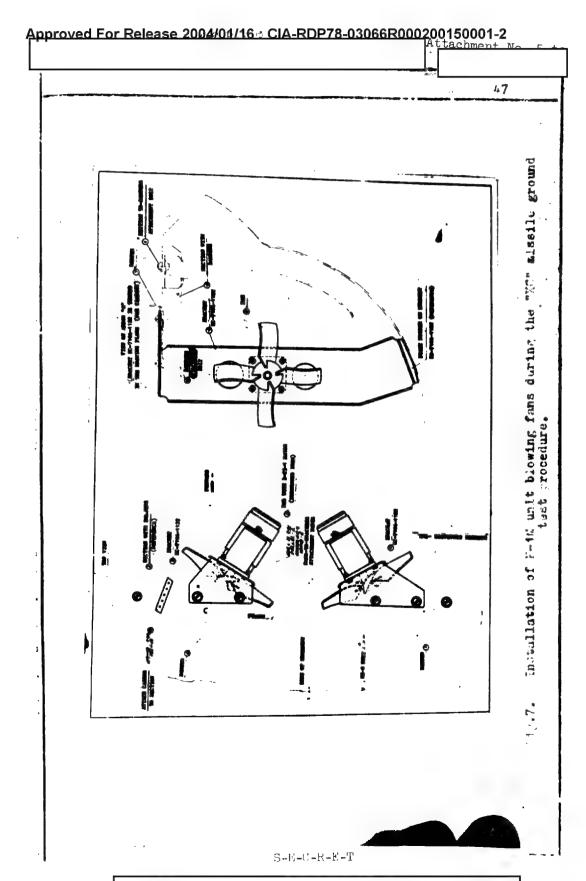
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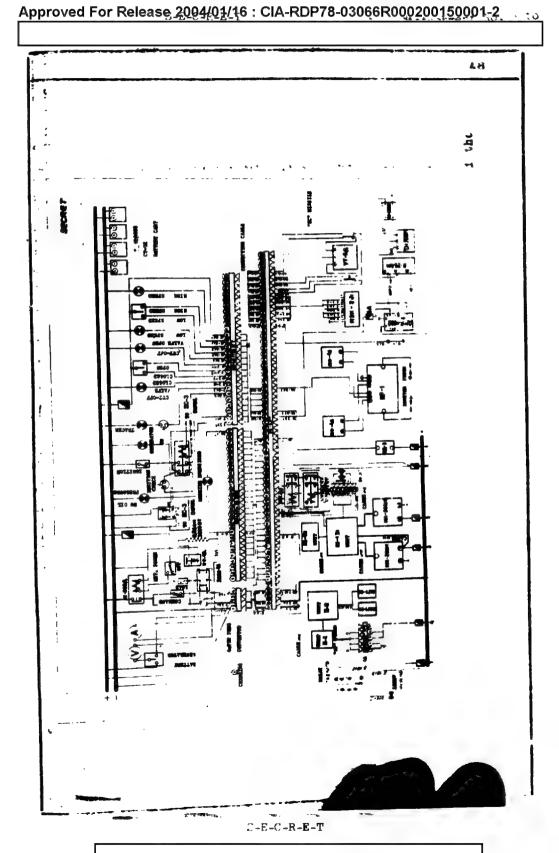
- 15, Cooling air outlet:
- 16. Access door, engine rear attachment;
- 17: Access doors, fuselage section joint;
- 18. Access door, L-U unit installation:
- 19. Access door, MIB-2 pump installation;
- 20. Access door, equipment installation;
- 21. Access door, K1-1H unit;
- 22. Access door, fuel filler;
- 23. Access door, high pressure oil filter;
- 24. Access door, rudder control bellcrank;
- 25. Access door, engine electrical equipment and accessories:
- 26. Access door, duplicating fuel supply line connection (non-return valve);
- 27. Access door, PK-63 receptacle;
- 28. Access door, alleron control bellorank;
- 29. Access door, THO-C pump plug connector;
- 30. K-403A unit horn;
- 31. Access door (not used);
- 32. Access door, fuel drain point;
- 33. Access door (not used);
- 34. Nose impact switch covers; 35. Access door, elevator control bellerank;
 - 36. Access door, K1-0 craule rigid attachment bolts.

46-Missile. Exterior inspection circuit about the "MC" missile.

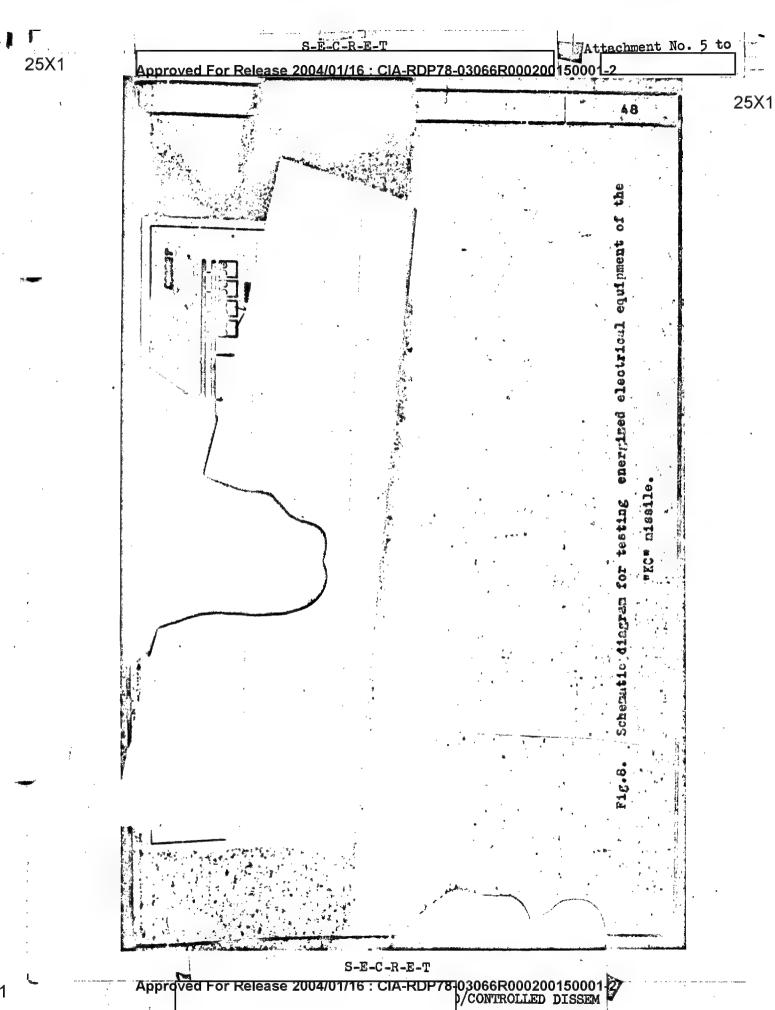
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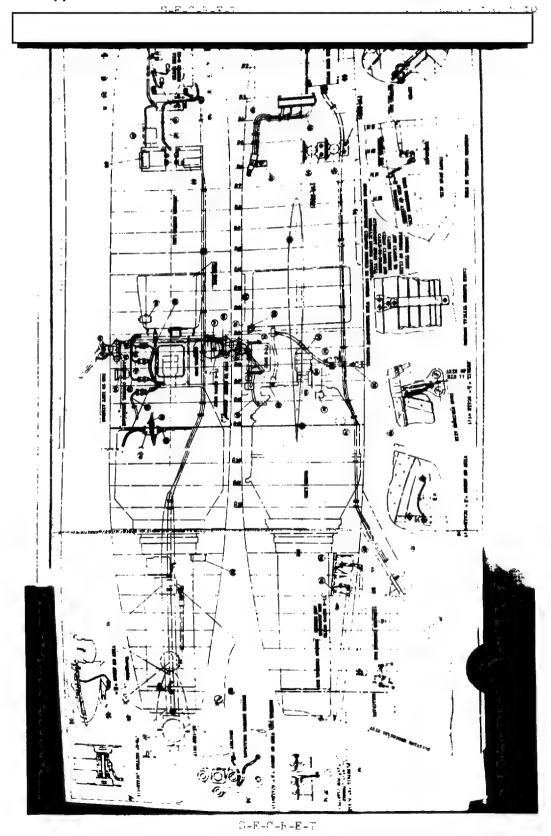
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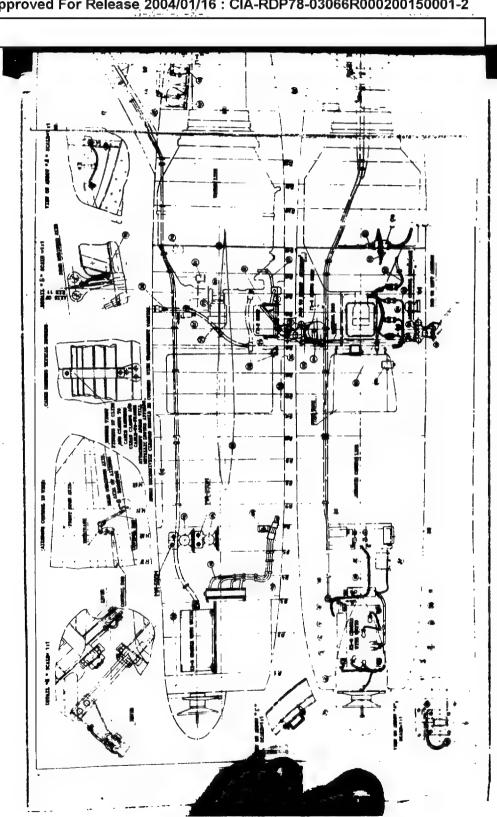
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A A	50
Transitional resistance not mere than 600	aicrocha .
1.K6-7000-00 cable ho.1	- body.
2.kc-7000-00 oable No.2	- body
3.KC-7000-00 ogble No.3	- body
.4.XC-7000-00 cable No.4	- bedy
5.KC-7000-00 cable No.5	- body
6.AC-7000-00 cuble No.6	- body
7.KC-7000-00 cable No.7	- body
8.KC-7000-00 cable No.8	- body
9.KC-7000-00 cable Ne.9	- body
10.KC-7000-00 cable No.11	- body
11.KC-7000-00 cable No.13	- bedy
12.KC-7000-00 cable No.17	e body
13.KC-7000-00 oable No.18	- body
14.KO-7000-200 armic 501	- Today
-15. KC-7106-300 MA-500M	body
16.KC7105-270 KI-13N	-body
17.XC7000-00 oable 19/2	beco
10.XC-7000400 cable No.15/1.	body .
10.KC-7106-150 special wiring	w body
20.KC7202-190 CG-3000P	e bedy
21.KC7000-00 oable No.2	- engine
22.KC-7000-00 oable No.1	- body
23.XC-700C-00 cable Hea3	- body
24.XC-7000-00 oable No.5	- body 2 4
25.EC-7000-00 ceble No.6	- body
26.KC-7000-00 eable Fo.8	- body
27.KC7000-90 cable No.9	- body
3.KC-7704-30-IIAI-18A	- hody
29.K3-77C4-2000 ITAT-19A	- body
30.107704-160 TI-I	- body
11_xc7704-190 1II-2	- body
32,KC-7704-710 TI-18M0	- body
33.KG-7106-210 KI-0	- body
34 KC-7106-390 KI-7M	· r hody
35.xc-7106-42C KI-IN	- pody
36.KC-7106-420 KI-II	- pody
37.KG-7106-420 KI-12MP	- body
38_xc-1800-00 ving	- body
39.KC-0200-00 nocess door cover	- body

	51
0.KC-0221-100 access door cover	- body
1.KO-0222-00 access docor cover	- body
2.KG-8223- 00 access door cover	- body
3.KC-0223- 00 access door cover	- body
4.NO-0228-00 acces door cover	- bcdy
5.KC-3000-00 access door appliant	-upper fairi
7.KG-5102-20	- body
3.KC-5102-20 II-4 rudder	- body
9.KG-5101-00 II-4 aileron	- body
0-X0-7202-180 G-14A	- pody
1.KC-6400-00 DT-6	- engine
2.KC-6400-00 extension pipe	- engine
3.KC-6400-00 engine	- body
4.KC-3000-00 stabilizer	- lower fin
5.KC-3000-00 upper fin	; - lower fin
6.KC-7202-900 platform	-body
- TA DECOME TO THE TARREST TARREST TO THE COURT OF THE CO	- body
9. M-7202-880 Maraing Tight pp 400-45	
· ·	- body
9.KG-7202-880 warning light BE COC-45 0-KG-71C6-830 unit C.A.KG-IA 1.KG-7202-700 box FT-40	- poda
0-KC-71C6-830 unit CA KC-IA	- body
0wKG-71G6-830 unit CAKG-IA 1.KGw7202-700 box PI-40	- body ore than 2000 microcky - elevator
Owko-7166-830 unit CAKC-IA 1.KC-7202-700 bor FT-40 Transitional resistance not me	- body ore than 2000 microcky - elevator - elevator
Owkc-7166-830 unit CAkc-IA 1.KC+7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shaokle	- body ore than 2000 microcky - elevator - elevator - bracket
Owko-7166-830 unit CAKC-IA 1.KC+7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shaokle 58.KC-3200-00 shaokle 59.KC-3000-00 rooker 60.EC-5102-20 rooker	- body ore than 2000 microcky - elevator - elevator - bracket - lower fin
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0-KC-71C6-830 unit CAKC-IA 1.KC-7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3000-00 rocker 60.EC-5102-20 rocker 64.KC-51C2-20 drive rod 65.K6-5102-20 drive rod	- body ore than 2000 microcky - elevator - slevator - bracket - lower fin - lever - lever
0+KC-71C6-830 unit CAKC-IA 1.KC+7202-700 box PT-40 Pransitional resistance not mo 57.KC-3200-00 shaokla 58.KC-3200-00 shaokla 59.KC-3200-00 rooker 60.EC-5102-20 rooker 64.KC-51C2-20 drive rod 65.K6-51C2-20 drive rod 66.KC-51C2-20 lever	- body - clevator - clevator - clevator - bracket - lower fin - lever - lever - body
0-KC-71C6-830 unit CAKC-IA 1.KC-7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3200-00 rocker 60.EC-5102-20 rocker 64.KC-51C2-20 drive rod 65.K6-5102-20 drive rod 66.KC-51C2-20 lever 67.KC-5102-20 lever	- body - body - elevator - elevator - bracket - lower fin - lever - lever - body - body
0-KC-71G6-830 unit CAKC-IA 1.KC-7202-700 box PI-40 Pransitional resistance not mo 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3000-00 rocker 60.EC-5102-20 rocker 64.KC-5102-20 drive rod 65.KC-5102-20 drive rod 66.KC-5102-20 lever 71.EC-6101-00 fuel tank	- body - clevator - clevator - clevator - bracket - lower fin - lever - lover - body - body - body
0-KC-71C6-830 unit CAKC-IA 1.KC-7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3200-00 rocker 60.EC-5102-20 rocker 64.KC-51C2-20 drive rod 65.K6-5102-20 drive rod 66.KC-51C2-20 lever 71.EC-6101-00 fuel tank 72.KC-6100-00 piping	- body - clevator - clevator - clevator - bracket - lower fin - lever - lever - body - body - body - body
0-KC-71G6-830 unit CAKC-IA 1.KC-7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3000-00 rocker 60.EC-5102-20 rocker 64.KC-51C2-20 drive rod 65.KC-51C2-20 drive rod 66.KC-51C2-20 lever 71.KC-6101-00 fuel tank 72.KC-6100-00 piping 73.EC-6100-00 piping	- body - elevator - elevator - elevator - bracket - lower fin - lever - lever - body - body - body - body - body
0-KC-71C6-830 unit CAKC-IA 1.KC+7202-700 box PT-40 Pransitional resistance not mo 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3200-00 rocker 60.EC-5102-20 rocker 64.KC-5102-20 drive rod 65.K6-5102-20 drive rod 66.KC-51C2-20 lever 71.KC-6101-00 fuel tank 72.KC-6100-00 piping 73.EC-6100-00 piping	- body - elevator - elevator - elevator - bracket - lower fin - lever - lever - body - body - body - body - body - pody - pody - pody
0+KC-71C6-830 unit CAKC-IA 1.KC+7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3000-00 rocker 60.EC-5102-20 drive rod 65.KC-5102-20 drive rod 66.KC-51C2-20 lever 71.EC-6101-00 fuel tank 72.KC-6100-00 piping 73.EC-6100-00 piping 74.KC-6100-00 piping	- body - elevator - elevator - elevator - bracket - lower fin - lever - lever - body - tank
0+KC-71C6-830 unit CAKC-IA 1.KC+7202-700 box PI-40 Pransitional resistance not mo 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3000-00 rooker 60.EC-5102-20 drive rod 65.KC-5102-20 drive rod 65.KC-5102-20 lever 67.KC-5102-20 lever 71.EC-6101-00 fuel tank 72.KC-6100-00 piping 73.EC-6100-00 piping 74.KC-6100-00 piping 75.KC-6100-00 piping	- body - clevator - clevator - clevator - bracket - lower fin - lever - lover - body - body - body - body - body - body - tank
0+KC-71C6-830 unit CAKC-IA 1.KC+7202-700 box PT-40 Pransitional resistance not me 57.KC-3200-00 shackle 58.KC-3200-00 shackle 59.KC-3000-00 rocker 60.EC-5102-20 drive rod 65.KC-5102-20 drive rod 66.KC-51C2-20 lever 71.EC-6101-00 fuel tank 72.KC-6100-00 piping 73.EC-6100-00 piping 74.KC-6100-00 piping	- body - elevator - elevator - elevator - bracket - lower fin - lever - lever - body

S-E-C-R-E-T

Attachment No. 5 to

approved For Release 2004/01/16 : CIA-RDP78-03066R000200150001-2

25X1

84.KC-5101-60 drive rod

- lever

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85.KC-5101-CO drive rod

- tip

Transitional resistance not more than 100 microchm

77.50-6400-00 generator

- engine

76.KC-7000-00 KI-I

-engine

S-E-C-R-E-T

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Attachment No. 3

OPERATING INSTRUCTIONS FOR
THE ITEM KS
BOOK II



SECRET